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☑ 1. Document ID: US 5695376 A

L2: Entry 1 of 1 File: USPT Dec 9, 1997

US-PAT-NO: 5695376
DOCUMENT-IDENTIFIER: US 5695376 A

TITLE: Thermoformable barrier nonwoven laminate

DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Datta; Paul Joseph	Appleton	WI		
Gryskiewicz; Stanley Michael	Woodstock	GA		
Pike; Richard Daniel	Norcross	GA		

US-CL-CURRENT: 442/334; 442/352, 442/353, 442/361, 442/398, 442/409

ABSTRACT:

The present invention provides a barrier laminate having a barrier layer and a lofty crimped-fiber nonwoven web layer, which laminate provides a foam-like resiliency, cloth-like texture and liquid barrier property. The barrier layer of the laminate is selected from films, microfiber nonwoven webs and laminates thereof, and the crimped-fiber web layer, which contains a structural fiber component and an heat-activatable adhesive component, has substantially uniformly distributed interfiber bonds. Additionally provided are thermoformed articles from the laminate and a thermoforming process for producing the articles.

8 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title CLS.1 SEQ.1 ATT.1

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Term	Documents
"5695376"[USPT]	1
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☐ 1. Document ID: US 5066701 A

L2: Entry 1 of 1 File: USPT Nov 19, 1991

US-PAT-NO: 5066701
DOCUMENT-IDENTIFIER: US 5066701 A

TITLE: Stabilized polyketone polymers

DATE-ISSUED: November 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
George; Eric R.	Houston	TX		
Slaugh; Lynn H.	Houston	TX		

US-CL-CURRENT: 524/417; 524/434

ABSTRACT:

Polymer compositions comprising an intimate mixture of a linear alternating polymer of carbon monoxide and at least one ethylenically unsaturated hydrocarbon and a mixture of a hydroxyapatite and a zinc aluminate demonstrate improved stability.

22 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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Term	Documents
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☐ 1. Document ID: US 5407982 A

L1: Entry 1 of 1 File: USPT Apr 18, 1995

US-PAT-NO: 5407982
DOCUMENT-IDENTIFIER: US 5407982 A

TITLE: Process for producing stabilized polyketone polymers and polymers produced therefrom

DATE-ISSUED: April 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ash; Carlton E.	Sugar Land	TX		

US-CL-CURRENT: 524/106; 524/115, 524/122, 524/154, 524/177, 524/401

ABSTRACT:

It is herein disclosed a process for stabilizing freshly prepared polyketone polymer comprising contacting the polymer with a sufficient quantity of a stabilizing agent such as an alkali metal iodide salt or an onium iodide salt of nitrogen, phosphorus, or arsenic in which the organic groups comprising the cation coordination sphere is shielded by aromatic substituents. The inventive process results in stabilized polyketone polymers having and exhibiting improved thermal oxidative stability properties. It is also disclosed a stabilized polymer composition comprising a major amount of a polyketone polymer and a minor amount of an onium iodide salt of nitrogen, phosphorus, arsenic or combination thereof in which the cation coordination sphere is shielded by aromatic substituents.

19 Claims, 0 Drawing figures
Exemplary Claim Number: 1,16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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Term	Documents
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☐ 1. Document ID: US 5955019 A

L3: Entry 1 of 8 File: USPT Sep 21, 1999

US-PAT-NO: 5955019
DOCUMENT-IDENTIFIER: US 5955019 A

TITLE: Solution spinning polyketone fibers

DATE-ISSUED: September 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ash; Carlton Edwin	Sugar Land	TX		

US-CL-CURRENT: 264/203; 264/210.8

ABSTRACT:

A process for preparing filaments of polyketones which can be formed into various fibers is presented. The process involves preparing a solution of polyketone in a solvent, passing the solution through a die to produce a strand, coagulating the strand to produce a filament, removing solvent from the presence of the filament, and subsequently drawing the filament. The solvents are zinc and lithium based solutions.

10 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KMC | Draw Desc | Image

☐ 2. Document ID: US 5820806 A

L3: Entry 2 of 8 File: USPT Oct 13, 1998

US-PAT-NO: 5820806
DOCUMENT-IDENTIFIER: US 5820806 A

TITLE: Process for the preparation of polyketone fibers

DATE-ISSUED: October 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cloos; Peter Jeroen	Duiven			NL
ter Maat; Hendrik	Rijssen			NL
Jongerden; Gert Jan	Velp			NL

US-CL-CURRENT: 264/203; 264/205, 264/210.8

ABSTRACT:

It has been found that fibres can be spun in a simple manner from polyketone polymer solutions by making a thermoreversible gel from a solution of polyketone and a solvent for the polymer having a boiling temperature above 443 K, a melting temperature below 373 K, and a polymer dissolving temperature above 443 K. The thermoreversible gel forms as the solution is cooled. Because of the specific properties of the solvent in combination with the concentration of the polymer and its intrinsic viscosity, a permanently orientable thermoreversible gel is formed by cooling. The polymer crystallises on being cooled, optionally while still in the presence of the solvent. Preferably, so much polymer is dissolved as will give a product of the polymer concentration and [.eta.].sup.0.5 (wherein [.eta.] represents the intrinsic viscosity of the polymer) of higher than 0.35 (dl/g).sup.0.5.

11 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 3. Document ID: US 5552218 A

L3: Entry 3 of 8 File: USPT Sep 3, 1996

US-PAT-NO: 5552218
DOCUMENT-IDENTIFIER: US 5552218 A

TITLE: Polyketone yarn and a method of manufacturing same

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maat; Hendrik T.	Rijssen			NL
Cloos; Peter J.	Duiven			NL
Van Der Werff; Harm	Ede			NL
Lommerts; Bert J.	Dieren			NL

US-CL-CURRENT: 428/357; 428/364, 428/394, 568/303

ABSTRACT:

The invention relates to polyketone yarns of which the maximum tangential modulus at an elongation of more than 0.2% is at least 10 N/tex which display both high strength and, if so desired, a high elongation at break. The quality number, which is measured on a single filament out of a bundle of at least about 30 filaments spun simultaneously through one spinneret and given as .sigma...epsilon., is higher than 85 mN/tex, preferably higher than 100 mN/tex. The quality number of a yarn spun through one spinneret of one or more holes is higher than 110 mN/tex, preferably higher than 120 mN/tex. The yarns are manufactured by extruding a solution of a

linear polymer of alternating ethylene and carbon monoxide units in a resorcinol-containing solvent, after which the solvent is removed with the aid of methanol as coagulant.

7 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

4. Document ID: US 5475083 A

L3: Entry 4 of 8 File: USPT Dec 12, 1995

US-PAT-NO: 5475083
DOCUMENT-IDENTIFIER: US 5475083 A

TITLE: Composition of an ethylene/carbon monoxide copolymer

DATE-ISSUED: December 12, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
de Haas; Jacob L.	Meerssem			NL
Reid; Valerie M. C.	Maastricht			NL

US-CL-CURRENT: 528/491; 528/220, 528/392, 528/492, 528/495

ABSTRACT:

Compositions of an ethylene/carbon monoxide copolymer and a second component serving as swelling agent or gelling or non-gelling solvent, which are suited to be moulded below the melting point of the copolymer using the customary moulding techniques, and the second component of which is chosen from a group so far not known as possible components of compositions of ethylene/carbon monoxide copolymers.

9 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

5. Document ID: US 5281692 A

L3: Entry 5 of 8 File: USPT Jan 25, 1994

US-PAT-NO: 5281692
DOCUMENT-IDENTIFIER: US 5281692 A

TITLE: Elongated object made of a copolymer of carbon monoxide and an olefinically unsaturated monomer

DATE-ISSUED: January 25, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rutten; Hendrikus J. J.	Maastricht			NL

US-CL-CURRENT: 528/392; 528/502B

ABSTRACT:

Elongated object, made of an orientated alternating copolymer of carbon monoxide and an olefinically unsaturated monomer, which has a modulus of elasticity of at least 16 GPa, and a method for the production of objects from an alternating copolymer, orientated by stretching, of carbon monoxide and an olefinically unsaturated monomer, by dissolving the copolymer in a suitable solvent, converting the solution obtained, at a temperature above the dissolving point of the solution, to an object consisting of the solution, converting the object consisting of the solution to a solvent-containing object consisting of the copolymer, completely or partially removing the solvent from the solvent-containing object consisting of the copolymer and stretching at least the object thus obtained, or the solvent-containing object consisting of the copolymer, at elevated tempera-ture, it being possible for the stretching of tapes and films also to take place in two directions.

8 Claims, 0 Drawing figures
Exemplary Claim Number: 1

6. Document ID: US 5194210 A

L3: Entry 6 of 8 File: USPT Mar 16, 1993

US-PAT-NO: 5194210
DOCUMENT-IDENTIFIER: US 5194210 A

TITLE: Process for making polyketone fibers

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lommerts; Bert J.	MD Dieren			NL
Smook; Jan	DH Dieren			NL
Krins; Bastiaan	Westervoort			NL
Piotrowski; Andrzej M.	Peekskill	NY		
Band; Elliot I.	North Tarrytown	NY		

US-CL-CURRENT: 264/184; 264/203, 264/210.8

ABSTRACT:

Fibers of an alternating carbon monoxide-ethylene polymer having a molecular weight of at least 100,000 g/mole and a birefringence of at least 650.times.10.sup.-4 can be formed by first extruding a solution of the polymer in a mixed solvent system comprising an aromatic alcohol which is free of alkyl substituents on the aromatic nucleus and another solvent which is a liquid and is other than an aromatic alcohol. The extrusion into the solvent is at an extrusion rate of at least 1 m/min and forms a solvent-containing article which is then cooled or coagulated in a non-solvent for the polymer. The solvent is removed by extraction with a non-solvent for the polymer which is soluble in the mixture of solvents and the resulting article is drawn at a

temperature of at least 180.degree. C.

28 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

7. Document ID: US 5066701 A

L3: Entry 7 of 8 File: USPT Nov 19, 1991

US-PAT-NO: 5066701
DOCUMENT-IDENTIFIER: US 5066701 A

TITLE: Stabilized polyketone polymers

DATE-ISSUED: November 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
George; Eric R.	Houston	TX		
Slaugh; Lynn H.	Houston	TX		

US-CL-CURRENT: 524/417; 524/434

ABSTRACT:

Polymer compositions comprising an intimate mixture of a linear alternating polymer of carbon monoxide and at least one ethylenically unsaturated hydrocarbon and a mixture of a hydroxyapatite and a zinc aluminate demonstrate improved stability.

22 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

8. Document ID: US 5045258 A

L3: Entry 8 of 8 File: USPT Sep 3, 1991

US-PAT-NO: 5045258
DOCUMENT-IDENTIFIER: US 5045258 A

TITLE: Process for the preparation of thermoplastic fibers

DATE-ISSUED: September 3, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
van Breen; Adriaan W.	Amsterdam			NL
van Deursen; Josephus H.	Amsterdam			NL
Wetser; Franciscus I. M.	Amsterdam			NL

US-CL-CURRENT: 264/85; 264/203, 264/205, 264/210.4, 264/210.8, 264/211.15, 264/211.16

ABSTRACT:

A process for the preparation of thermoplastic fibers which comprises:

(a) spinning a solution of an alternating copolymer of an olefinically unsaturated compound and carbon monoxide, having a number average molecular weight of at least 5000, to fibers through a spinning aperture, said solution having a polymer content in the range of from 0.1-50% m

(b) submitting the thus obtained fibers to a solvent-removal treatment to remove substantially all the solvent, and

(c) stretching the thus obtained substantially solvent-free fibers in an environment having a temperature between the glass-transition temperature of said polymer and (T+20).degree. C., when T is the crystalline melting point of the polymer.

4 Claims, 0 Drawing figures
Exemplary Claim Number: 1

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5066701S	0
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